



revised 8/14/2009 3:01:00 PM

# FACILITY COMPLIANCE AUDIT REPORT

## Division of Waste Management Solid Waste Section

<b>UNIT TYPE:</b>										<b>COUNTY: Watauga</b> <b>PERMIT NO.: 95-04 SWC</b> <b>FILE TYPE: COMPLIANCE</b>			
Lined MSWLF		LCID		YW		Transfer		Compost	X			SLAS	
Closed MSWLF		HHW		White goods		Incineration		T&P				FIRM	
CDLF		Tire T&P / Collection		Tire Monofill		Industrial Landfill		DEMO				SDTF	

**Date of Audit:** August 13, 2009

**Date of Last Audit:** February 11, 2009

**FACILITY NAME AND ADDRESS:**

Appalachian State University Small, Type III Solid Waste Compost Facility  
 265 Dale Street  
 Boone, NC 28608-2105

**GPS COORDINATES:** N: 36.21323 E: -81.65750

**FACILITY CONTACT NAME AND PHONE NUMBER:**

Jennifer B. Maxwell, Resource Conservation Manager  
 w: 828-262-3190 x. 108  
 c: 828-406-4090  
 f: 828-262-4017  
 maxwelljb@appstate.edu

**FACILITY CONTACT ADDRESS:**

265 Dale Street  
 Boone, NC 28608-2105

**AUDIT PARTICIPANTS:**

John Patrone, NCDENR – Solid Waste Section (SWS)  
 Jennifer Maxwell, Resource Conservation Manager  
 Stanley Carroll, Operations Manager

**STATUS OF PERMIT:**

Permit To Operate (PTO) issued July 20, 2006  
 PTO expires on July 1, 2011.

**PURPOSE OF AUDIT:**

Comprehensive Audit

**NOTICE OF VIOLATION(S):**

None

You are hereby advised that, pursuant to N.C.G.S. 130A-22, an administrative penalty of up to \$15,000 per day may be assessed for each violation of the Solid Waste Statute or Regulations. For the violation(s) noted here, you may be subject to enforcement actions including penalties, injunction from operation of a solid waste management facility or a solid waste collection service and any such further relief as may be necessary to achieve compliance with the North Carolina Solid Waste Management Act and Rules.

**STATUS OF PAST NOTED VIOLATION(S):**

None

**FACILITY COMPLIANCE AUDIT REPORT**  
**Division of Waste Management**  
**Solid Waste Section**

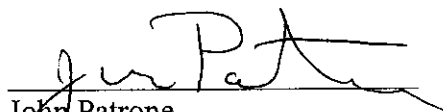
Page 2 of 2

**AREAS OF CONCERN AND COMMENTS:**

On August 13, 2009, John Patrone met with Jennifer Maxwell and Stanley Carroll and conducted a comprehensive audit of the Small, Type III Solid Waste Compost facility located on Dale Street (adjacent to the ASU Physical Plant) in Boone, Watauga County.

1. The facility site plan was reviewed and its operations plan verified.
2. The facility is a Small, Type III Solid Waste Compost Facility. It produces compost from pre-consumer fruit and vegetable waste, coffee grounds, (small amounts of) cooked meat, and shredded paper generated by ASU Food Services. The facility primarily uses woodchips, provided by New River Light & Power (electric power company serving ASU), as a bulking agent but will also use shredded pine bark and sawdust if available.
3. The compost produced is used by ASU landscape services and the (ASU) Sustainable Development Teaching and Research Farm. Compost is not distributed to individuals or the general public.
4. The facility uses the static aerated compost method. It aerates one pile at a time. The material aerated should be covered with a tarp or previously composted material in order to ensure universal pathogen reduction.
5. There are three temporary storage bins (cinder block bay, open at one-end) used to store bulking agent (two bins filled with woodchips) and food waste (one bin filled with a pre-mixture of food waste and woodchip). Woodchip and food waste is combined in a 50:50 mixture to form piles of material to be aerated for compost. The material in the storage bays is covered with a tarp when not in use.
6. Runoff is controlled from the site by berms of woodchips placed in front of the temporary storage bins and the material being aerated for compost.
7. The temporary storage bins are no longer overflowed, as was observed during the last audit. The material to be composted is aerated for ~20 days. Afterward, the (aerated) compost pile is brought down the road (~300 yards) to a curing area where the finished compost can be picked-up by ASU personnel. The compost will be cured in ~6 to 8 months but can be used sooner in non-esthetic applications.
8. Temperature records were verified for April, May, June, and July (4/1 through 4/21, 4/27 through 5/18, 5/19 through 6/8, 6/22 through 7/13, and 7/16 to-date). The temperature records demonstrate that the facility obtained  $\geq 131^{\circ}\text{F}$  for 3 days and  $> 104^{\circ}\text{F}$  for an additional 11 days, with an average temperature of  $> 113^{\circ}\text{F}$ .
9. Testing records were verified for fecal coliform (Statesville Analytical), Heavy Metals (NCDA&CS -- Agronomic Division), and manmade & inert material (ASU). Records were reviewed for March 2009. Ms. Maxwell stated that testing will be conducted March and September, annually.
10. Tonnage records for 2009 were reviewed: January = 5 tons, February = 7.5 tons, March = 11.4 tons, April = 11 tons, May = 4.8 tons, and June = 10 tons. Facility throughput from July 2008 through June 2009 was 105.20 tons.
11. The facility had proper signage. However, the facility contact name and phone number should also be posted.
12. Ms. Maxwell stated that the facility will further reduce the material stored in the temporary storage bins as the "method" of composting and product application is streamlined.
13. The facility was asked to create a gap (of several feet) between the temporary storage bins and the material being aerated for compost. The pile of material being aerated should be constructed such that it has several feet of space available on all sides from any objects.

Please contact me if you have any questions or concerns regarding this audit report.

  
John Patrone  
Environmental Senior Specialist  
**Regional Representative**

Phone: 336-771-5095 Fax: 336-771-4631

Delivered on : <u>August 14, 2009</u> by		Hand delivery	<input checked="" type="checkbox"/>	US Mail		Certified No. <input type="checkbox"/>
--	--	---------------	-------------------------------------	---------	--	--

cc: Mark Poindexter, Field Operations Branch Supervisor  
Jason Watkins, Central Regional Supervisor  
Donald Herndon, Compliance Officer  
Michael Scott, Composting & Land Applications Branch Head